

Application No. 10/569,950

Amendment dated August 6, 2008

Reply to Office Action of May 16, 2008

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An electric power steering system comprising:

a steering shaft including an input shaft and an output shaft which are coaxially interconnected via a torsion bar;

a cylindrical housing for rotatably supporting the steering shaft;

a detector coil accommodated in the housing as surrounding the steering shaft in order to detect a torsion angle of the torsion bar;

an electric motor for applying a steering assist force to the output shaft or a steering mechanism operatively coupled with the output shaft;

a control unit for controlling the steering assist force from the electric motor based on the variations of impedance produced in the detector coil; and

a plurality of lead pins projected from an outside periphery of the detector coil,

wherein the plurality of lead pins and a control board of the control unit are interconnected via a wire harness, and the plurality of lead pins and the wire harness are interconnected via conductive sleeve terminals, each of the conductive sleeve terminals including a cylindrical sleeve portion fitted about a respective of the plurality of lead pins and a connection portion connected with the wire harness and upstanding from an outside periphery of the sleeve portion, and

wherein the sleeve portion is formed with a resilient cut-bent portion at a side thereof, the cut-bent portion being bent inwardly, and

wherein the sleeve portion is connected to the respective of the plurality of lead pins with solder, the solder being located between an inside surface of the sleeve portion and an outside surface of the respective of the plurality of lead pins.

2-5. (Cancelled)

6. (Currently Amended) The electric power steering system according to Claim 2Claim 9, further comprising a coupler for integrally fixing the sleeve portions at places aligned with the plurality of lead pins.

7-8. (Cancelled)

9. (Currently Amended) The electric power steering system according to Claim 2An electric power steering system comprising:

a steering shaft including an input shaft and an output shaft which are coaxially interconnected via a torsion bar;

a cylindrical housing for rotatably supporting the steering shaft;

a detector coil accommodated in the housing as surrounding the steering shaft in order to detect a torsion angle of the torsion bar;

an electric motor for applying a steering assist force to the output shaft or a steering mechanism operatively coupled with the output shaft;

a control unit for controlling the steering assist force from the electric motor based on the variations of impedance produced in the detector coil; and

a plurality of lead pins projected from an outside periphery of the detector coil,

wherein the plurality of lead pins and a control board of the control unit are interconnected via a wire harness, and the plurality of lead pins and the wire harness are interconnected via conductive sleeve terminals, each of the conductive sleeve terminals including a cylindrical sleeve portion fitted about a respective of the plurality of lead pins and a connection portion connected with the wire harness and upstanding from an outside periphery of the sleeve portion.

wherein the sleeve portion is formed with a resilient cut-bent portion at a side thereof, the cut-bent portion being bent inwardly, and

wherein the connection portion is connected with the sleeve portion in a manner to be spaced away from an end face of the sleeve portion, the end face being located on a side of a distal end of the respective of the plurality of lead pins, and

wherein the sleeve portion is connected to the respective of the plurality of lead pins with solder, the solder being located between an inside surface of the sleeve portion and an outside surface of the respective of the plurality of lead pins.

10. (Currently Amended) The electric power steering system according to Claim 4An electric power steering system comprising:

a steering shaft including an input shaft and an output shaft which are coaxially interconnected via a torsion bar;

a cylindrical housing for rotatably supporting the steering shaft;

a detector coil accommodated in the housing as surrounding the steering shaft in order to detect a torsion angle of the torsion bar;

an electric motor for applying a steering assist force to the output shaft or a steering mechanism operatively coupled with the output shaft;

a control unit for controlling the steering assist force from the electric motor based on the variations of impedance produced in the detector coil; and

a plurality of lead pins projected from an outside periphery of the detector coil;

wherein the plurality of lead pins and a control board of the control unit are interconnected via a wire harness, and the plurality of lead pins and the wire harness are interconnected via conductive sleeve terminals, each of the conductive sleeve terminals including a cylindrical sleeve portion fitted about a respective of the plurality of lead pins and a connection portion connected with the wire harness and upstanding from an outside periphery of the sleeve portion,

wherein the sleeve portion is formed with a resilient cut-bent portion at a side thereof, the cut-bent portion being bent inwardly,

wherein the electric power steering system comprising a coupler for integrally fixing the sleeve portions at places aligned with the plurality of lead pins, and

wherein the sleeve portion is connected to the respective of the plurality of lead pins with solder, the solder being located between an inside surface of the sleeve portion and an outside surface of the respective of the plurality of lead pins.